

BioBasic

The BioBasic has been developed and designed for the fast and easy online measurement in biogas plants.



Application

The BioBasic can be integrated into any control system and meets all legal-, technical-, safety- and control-related requirements. The BioBasic is available in multiple versions for various gases!

Advantages

- to measure CH₄ and H₂S
- CO₂ & O₂ upgrade optionally possible
- easy control via touch panel
- error description in plain text
- flexible data communication
- up to 6 measuring points
- autom. fresh air purge
- long-term calibration stability
- low service costs
- CSA / UL proof

Applications

- biogas plant
- wastewater treatment
- landfill site
- rotting process



Made in Germany

For immissions and emissions measurement technology, we are your competent partner for every project in the gas analysis sector!

We develop and produce our product lines exclusively in Germany.

Contact

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BioBasic

technical specification



Display/handling:	in %, ppm via touch panel 128 x 64 pixel, white/blue
Menue control:	touch panel
Measurement output:	after 20 seconds
Measurement interval:	15 - 999 Min.
Measurement precision:	ca. < 1,5 - 3 % from value as well as < 1 % from upper range value / long-term drift < 1 %
Electronic inputs:	4 digital inputs 24 V AC / DC
Electronic outputs:	2x digital (on/fault), 4x digital & 4x analog (programmable & galvanically isolated)
Interfaces:	RS 232 (standard); ProfibusDP, DeviceNet; Industrial Ethernet (optional)
Pump capacity:	ca. 3,5 l min.
Pressure compatibility:	compensated, standard 0,7 to 1,1 bar
Energy consumption:	230 V AC / 50 Hz, 0,9 A / 207 VA
Climatic requirements:	ambient temp. 5° - 45° C / relative atmospheric humidity ~ 90 %, free of condensation
Housing:	wall cabinet IP 54 400 x 400 x 220 mm
Tube connections:	8 mm off-site / 6 mm in-site
Gas conditioning:	condensate trap incl. level guard, detonation protection (ATEX)
Measuring points:	1 (standard) optionally up to 6 sampling points upgradable
Measuring components:	CH ₄ (IR) and H ₂ S (EC) (basic unit), extensible by CO ₂ (IR) and/or O ₂ (EC)
Range:	CH ₄ = 0-100 Vol % / H ₂ S = 0-2000 ppm / CO ₂ = 0-65/-100 Vol % / O ₂ = 0-30 Vol %
Cuvette:	heated to 60°C

Basic system

to measure CH₄ and H₂S, consisting of:
 wall cabinet incl. touch panel interface and controlled housing fan,
 one measuring point included,
 flame barriers, fresh air purge, internal CH₄ monitoring,
 internal gas pump, condensate trap incl. level guard,
 automatic condensate drain,
 machine interface, RS 232, analogue output 4-20 mA

Options

upgrades and accessories:
 upgrade CO₂, H₂, NH₃ and/or O₂,
 up to a total of 6 measuring points,
 gas cooler, pre-suction pump,
 different types of sampling points,
 ProfibusDP, DeviceNet, Industrial Ethernet